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lid adheres to it and is raised upon it, as in Fig. 37.

Constricted, used of capsules that become narrowed under the mouth when dry. (Fig. 32.)

Contracted, see *constricted*.

INJURY DONE TO MOSSES BY INSECTS.

By G. N. BEST.

MOSSES furnish an excellent harbor for insects which in turn feed upon, mutilate and destroy them. From a diagnostic standpoint the injury they inflict is of importance since it modifies to a considerable extent the normal characters. When mosses are seriously injured, they show it in their short, stubby branches and in their withered, shrunk, often contorted and discolored leaves. The stems are the parts most commonly attacked. On these appear minute reddish-brown spots or nodules, usually with a central perforation, around which the tissues are necrosed and thickened. These spots not rarely coalesce to form patches, girdling the stem in such a way as to interfere with its nutrition. Less often the midribs, the pedicels and the capsules are attacked in the same manner. A common seat of injury is about the base of the capsule which then rarely attains a normal development, the peristome suffering most. When the stems are affected the areolation of the leaves is often quite abnormal, the basal and alar cells especially. Sometimes the cells of one-half of a leaf differ from those of the other half. In fact these deformities not rarely so obscure the normal characters, as to give grounds for a suspicion that a new species is at hand; and it is quite probable that not a few species owe their existence more to insects than to nature.

NEW AMERICAN MOSSES.

GRIMMIA EVANSI E. G. Britton. *Rhodora* 1: 148, 1899, *pl.* 7, "Plants forming low, dense, dirty tufts of a dark green or yellowish brown color, only the uppermost ends of the branches being green and free from gravel. Stems about 15mm. high, with short fastigiate branches 5mm. long, naked and radiculose below, crowded above with spreading leaves which are about 1mm. long by 0.5-0.7mm broad, oblong, concave, acute or apiculate with inrolled margins above, forming a more or less